

ABSTRACT OF THE DISCLOSURE

Methods for producing polypeptide with altered immunogenicity or improved stability properties are disclosed. The methods involve

- 5 a) expressing a diversified population of nucleotide sequences encoding a polypeptide of interest,
- b) screening the polypeptides expressed in step a) for function, immunogenicity and/or stability,
- c) selecting functional polypeptides having altered immunogenicity and/or increased
- 10 stability, e.g. functional *in vivo* half-life as compared to the polypeptide of interest, and
- d) optionally subjecting the nucleotide sequence encoding the polypeptide selected in step c) to one or more repeated cycles of steps a)-c). In a further step the expressed polypeptides of step a) or c) can be conjugated to at least one non-polypeptide moiety.